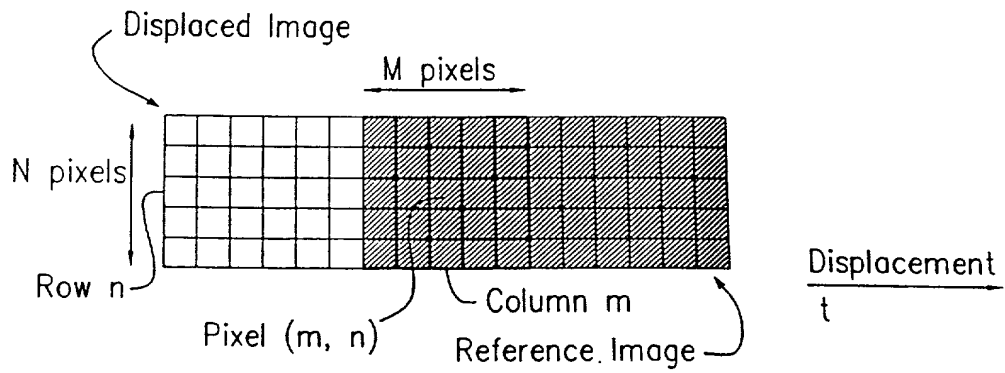
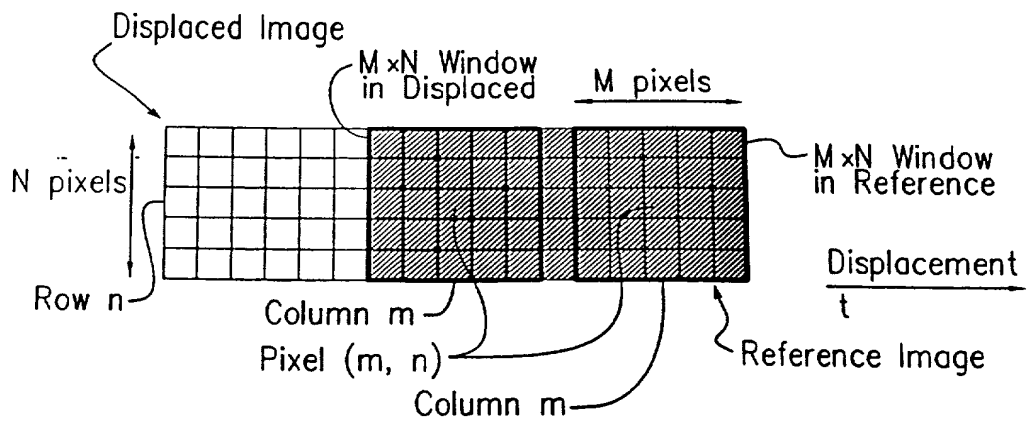


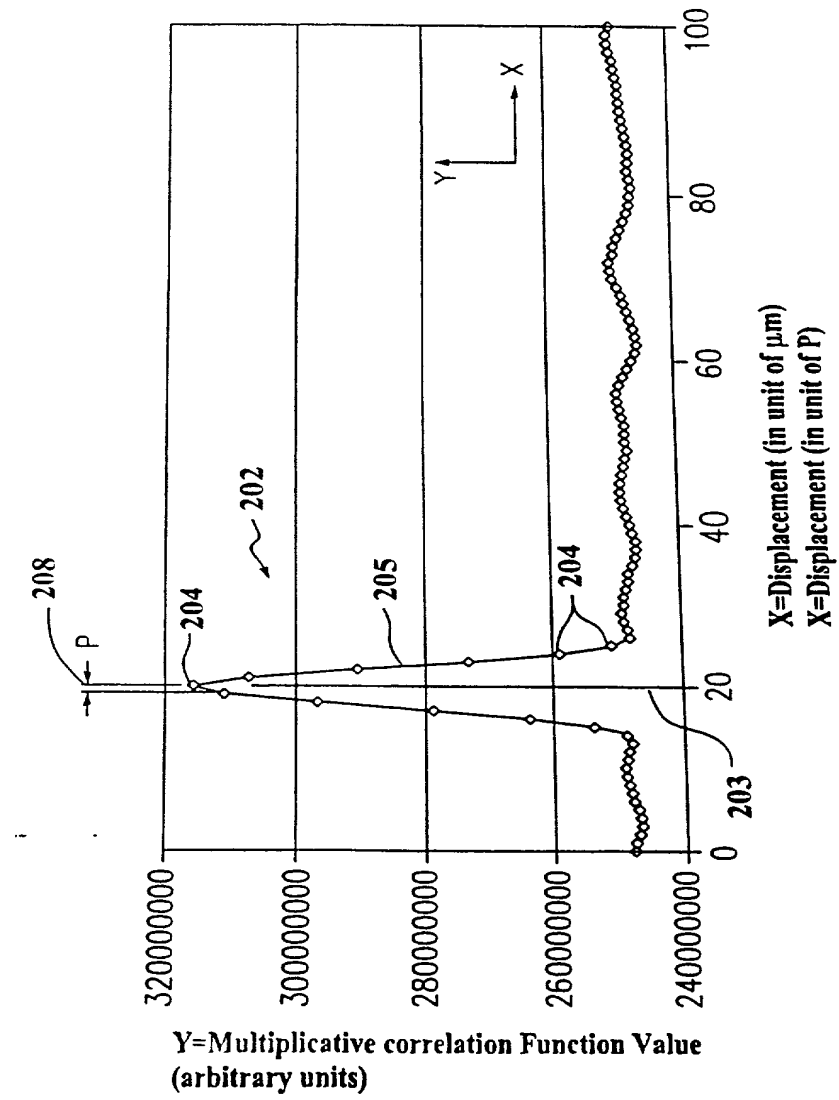
**Fig. 2**



**Fig. 3**



**FIG. 4**



**FIG. 5**

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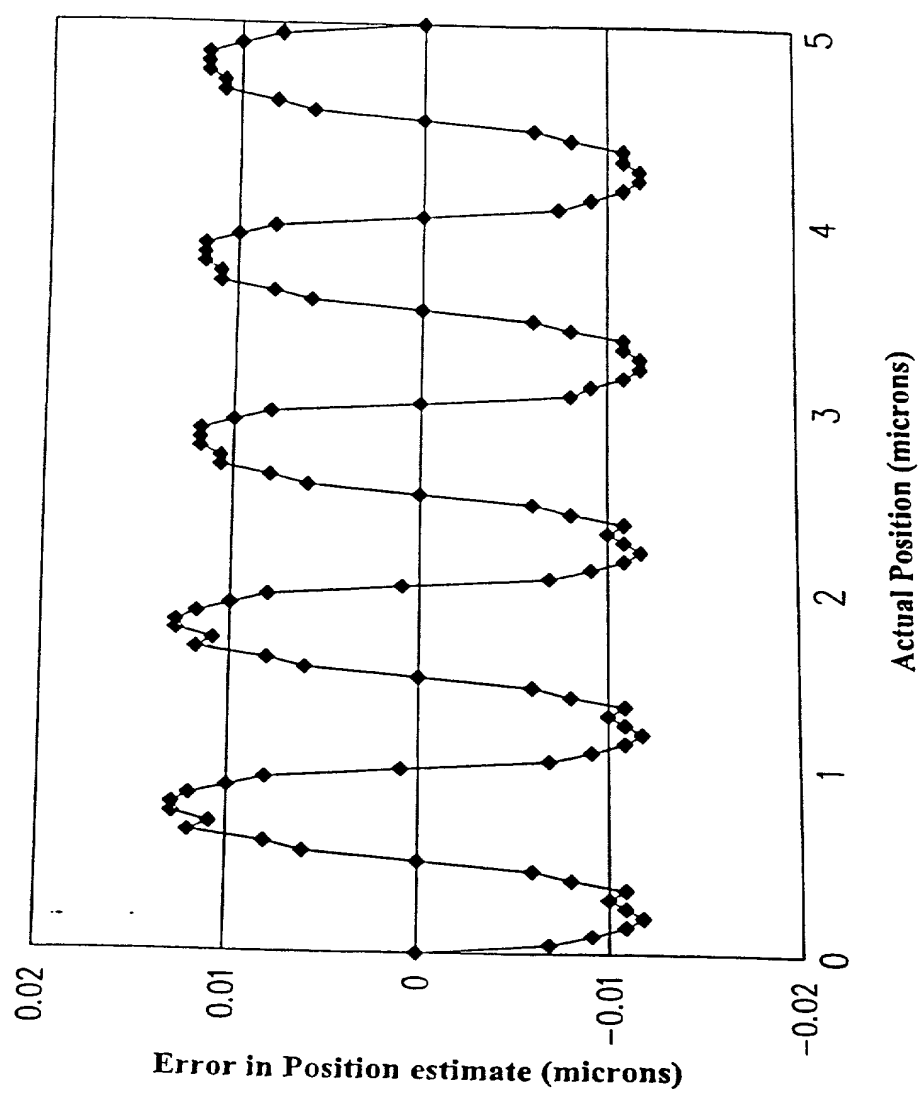


FIG. 6

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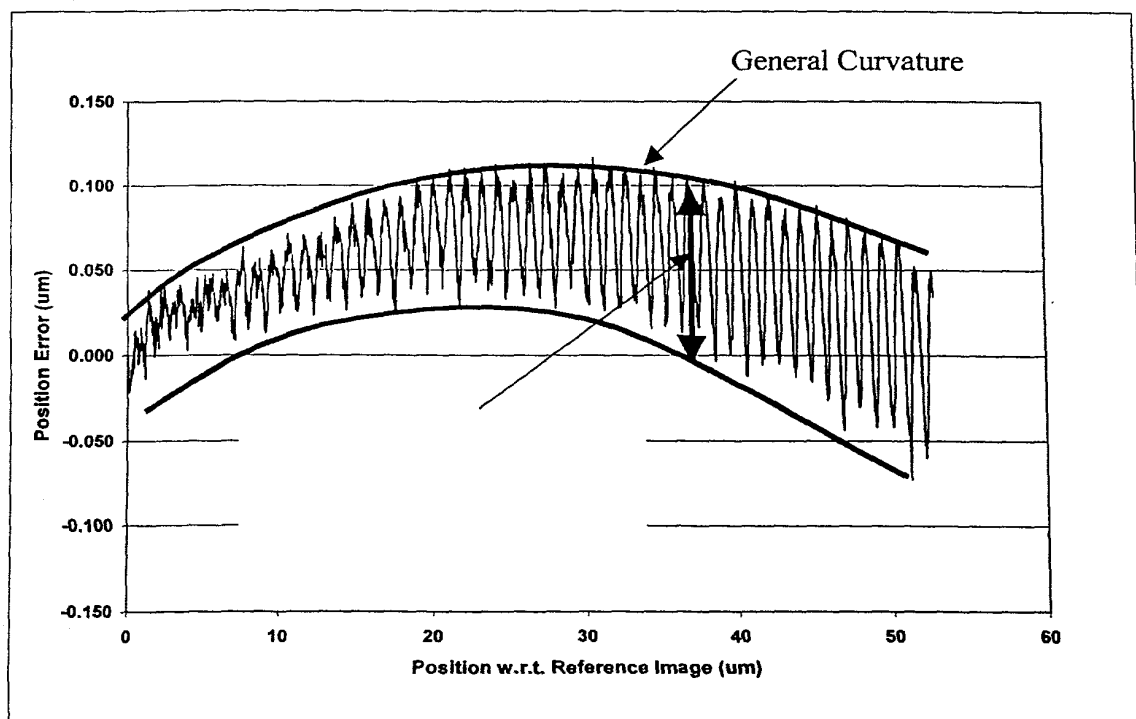


Fig. 7

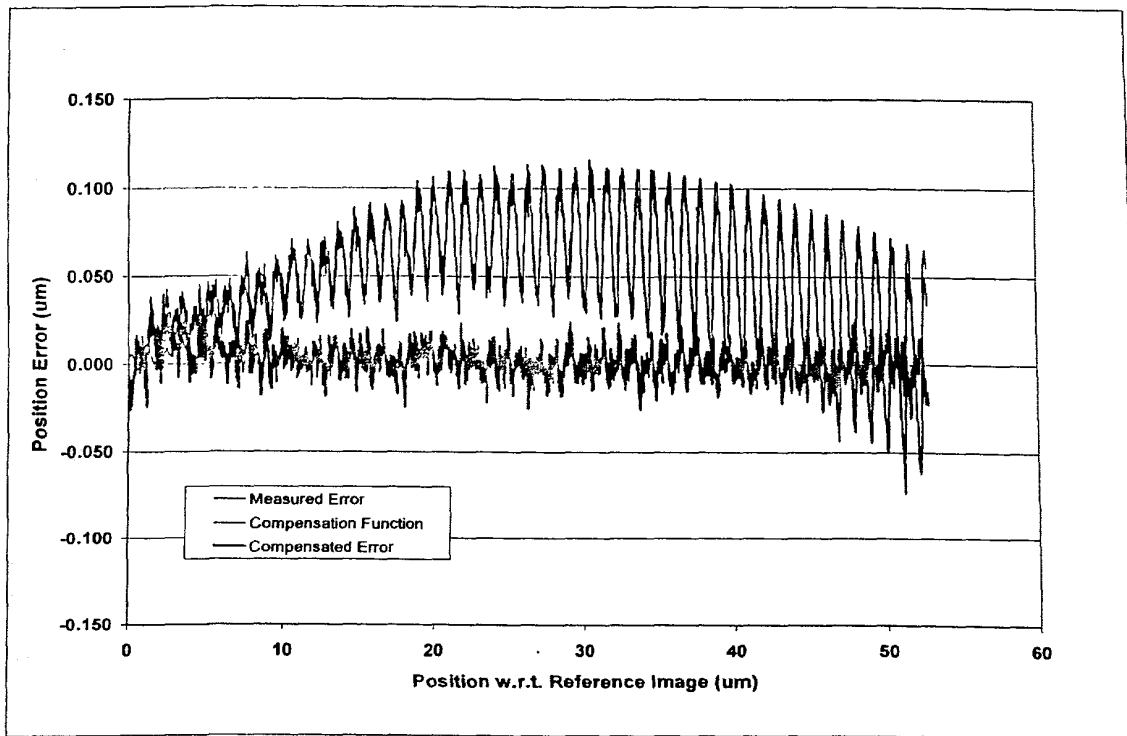


Fig. 8

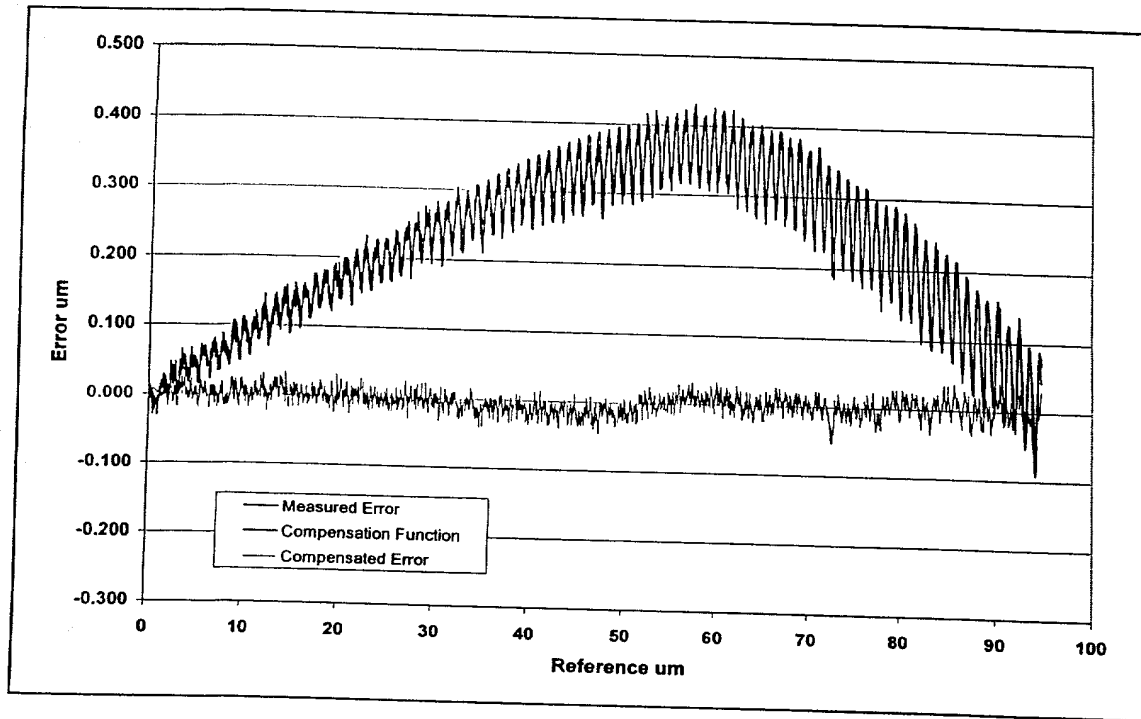


Fig. 9

The graph plots Error in micrometers (um) on the y-axis against Reference in micrometers (um) on the x-axis. The y-axis ranges from -1.000 to 0.200 with major ticks every 0.200. The x-axis ranges from 0 to 100 with major ticks every 10. Three data series are shown: 'Uncompensated Error' (solid line), 'Compensation Function' (dashed line), and 'Compensated Error' (dotted line). The 'Uncompensated Error' starts near 0 at x=0 and decreases linearly to approximately -0.85 at x=95. The 'Compensation Function' starts near 0 at x=0 and increases to approximately 0.85 at x=95, mirroring the negative slope of the uncompensated error. The 'Compensated Error' remains very close to the 0.000 line throughout the entire range of the reference value.

$\Delta_{\text{max}} = 1.0$      $\Delta_{\text{max}} = 0.5$      $\Delta_{\text{max}} = 0.25$      $\Delta_{\text{max}} = 0.125$      $\Delta_{\text{max}} = 0.0625$      $\Delta_{\text{max}} = 0.03125$      $\Delta_{\text{max}} = 0.015625$      $\Delta_{\text{max}} = 0.0078125$      $\Delta_{\text{max}} = 0.00390625$      $\Delta_{\text{max}} = 0.001953125$      $\Delta_{\text{max}} = 0.0009765625$      $\Delta_{\text{max}} = 0.00048828125$      $\Delta_{\text{max}} = 0.000244140625$      $\Delta_{\text{max}} = 0.0001220703125$      $\Delta_{\text{max}} = 6.103515625 \times 10^{-5}$      $\Delta_{\text{max}} = 3.0517578125 \times 10^{-5}$      $\Delta_{\text{max}} = 1.52587890625 \times 10^{-5}$      $\Delta_{\text{max}} = 7.62939453125 \times 10^{-6}$      $\Delta_{\text{max}} = 3.814697265625 \times 10^{-6}$      $\Delta_{\text{max}} = 1.9073486328125 \times 10^{-6}$      $\Delta_{\text{max}} = 9.5367431640625 \times 10^{-7}$      $\Delta_{\text{max}} = 4.76837158203125 \times 10^{-7}$      $\Delta_{\text{max}} = 2.384185791015625 \times 10^{-7}$      $\Delta_{\text{max}} = 1.1920928955078125 \times 10^{-7}$      $\Delta_{\text{max}} = 5.9604644775390625 \times 10^{-8}$      $\Delta_{\text{max}} = 2.98023223876953125 \times 10^{-8}$      $\Delta_{\text{max}} = 1.490116119384765625 \times 10^{-8}$      $\Delta_{\text{max}} = 7.450580596923828125 \times 10^{-9}$      $\Delta_{\text{max}} = 3.7252902984619140625 \times 10^{-9}$      $\Delta_{\text{max}} = 1.86264514923095703125 \times 10^{-9}$      $\Delta_{\text{max}} = 9.31322574615478515625 \times 10^{-10}$      $\Delta_{\text{max}} = 4.656612873077392578125 \times 10^{-10}$      $\Delta_{\text{max}} = 2.3283064365386962890625 \times 10^{-10}$      $\Delta_{\text{max}} = 1.16415321826934814453125 \times 10^{-10}$      $\Delta_{\text{max}} = 5.82076609134674072265625 \times 10^{-11}$      $\Delta_{\text{max}} = 2.910383045673370361328125 \times 10^{-11}$      $\Delta_{\text{max}} = 1.4551915228366851806640625 \times 10^{-11}$      $\Delta_{\text{max}} = 7.2759576141834259033203125 \times 10^{-12}$      $\Delta_{\text{max}} = 3.63797880709171295166015625 \times 10^{-12}$      $\Delta_{\text{max}} = 1.818989403545856475830078125 \times 10^{-12}$      $\Delta_{\text{max}} = 9.094947017729282379150390625 \times 10^{-13}$      $\Delta_{\text{max}} = 4.5474735088646411895751953125 \times 10^{-13}$      $\Delta_{\text{max}} = 2.27373675443232059478759765625 \times 10^{-13}$      $\Delta_{\text{max}} = 1.136868377216160297393798828125 \times 10^{-13}$      $\Delta_{\text{max}} = 5.684341886080801486968994140625 \times 10^{-14}$      $\Delta_{\text{max}} = 2.8421709430404007434844970703125 \times 10^{-14}$      $\Delta_{\text{max}} = 1.42108547152020037174224853515625 \times 10^{-14}$      $\Delta_{\text{max}} = 7.10542735760100185871124267578125 \times 10^{-15}$      $\Delta_{\text{max}} = 3.552713678800500929355621337890625 \times 10^{-15}$      $\Delta_{\text{max}} = 1.7763568394002504646778106689453125 \times 10^{-15}$      $\Delta_{\text{max}} = 8.8817841970012523233890533447265625 \times 10^{-16}$      $\Delta_{\text{max}} = 4.44089209850062616169452667236328125 \times 10^{-16}$      $\Delta_{\text{max}} = 2.220446049250313080847263336181640625 \times 10^{-16}$      $\Delta_{\text{max}} = 1.1102230246251565404236316680908203125 \times 10^{-16}$      $\Delta_{\text{max}} = 5.5511151231257827021181583394541015625 \times 10^{-17}$      $\Delta_{\text{max}} = 2.77555756156289135105907916972705078125 \times 10^{-17}$      $\Delta_{\text{max}} = 1.387778780781445675529539584863525390625 \times 10^{-17}$      $\Delta_{\text{max}} = 6.938893903907228377647697924317626953125 \times 10^{-18}$      $\Delta_{\text{max}} = 3.4694469519536141888238489621588134765625 \times 10^{-18}$      $\Delta_{\text{max}} = 1.73472347597680709441192448107940673828125 \times 10^{-18}$      $\Delta_{\text{max}} = 8.67361737988403547205962240539703369140625 \times 10^{-19}$      $\Delta_{\text{max}} = 4.336808689942017736029811202698516845703125 \times 10^{-19}$      $\Delta_{\text{max}} = 2.1684043449710088680149056013492584228515625 \times 10^{-19}$      $\Delta_{\text{max}} = 1.08420217248550443400745280067462921142578125 \times 10^{-19}$      $\Delta_{\text{max}} = 5.42101086242752217003726400337314605712890625 \times 10^{-20}$      $\Delta_{\text{max}} = 2.710505431213761085018632001686573028564453125 \times 10^{-20}$      $\Delta_{\text{max}} = 1.3552527156068805425093160008432865142822265625 \times 10^{-20}$      $\Delta_{\text{max}} = 6.7762635780344027125465800042164325714111328125 \times 10^{-21}$      $\Delta_{\text{max}} = 3.38813178901720135627329000210821628570556640625 \times 10^{-21}$      $\Delta_{\text{max}} = 1.694065894508600678136645001054108142852783203125 \times 10^{-21}$      $\Delta_{\text{max}} = 8.470329472543003390683225005270540714263916015625 \times 10^{-22}$      $\Delta_{\text{max}} = 4.2351647362715016953416125026352703571319580078125 \times 10^{-22}$      $\Delta_{\text{max}} = 2.11758236813575084767080625131763517856597900390625 \times 10^{-22}$      $\Delta_{\text{max}} = 1.058791184067875423835403125658817589282989501953125 \times 10^{-22}$      $\Delta_{\text{max}} = 5.293955920339377119177015627894087946414947509765625 \times 10^{-23}$      $\Delta_{\text{max}} = 2.6469779601696885595885078139470439732074737548828125 \times 10^{-23}$      $\Delta_{\text{max}} = 1.32348898008484427979425390697352198660373687744140625 \times 10^{-23}$      $\Delta_{\text{max}} = 6.61744490042422139897126953486760993301868438720703125 \times 10^{-24}$      $\Delta_{\text{max}} = 3.308722$



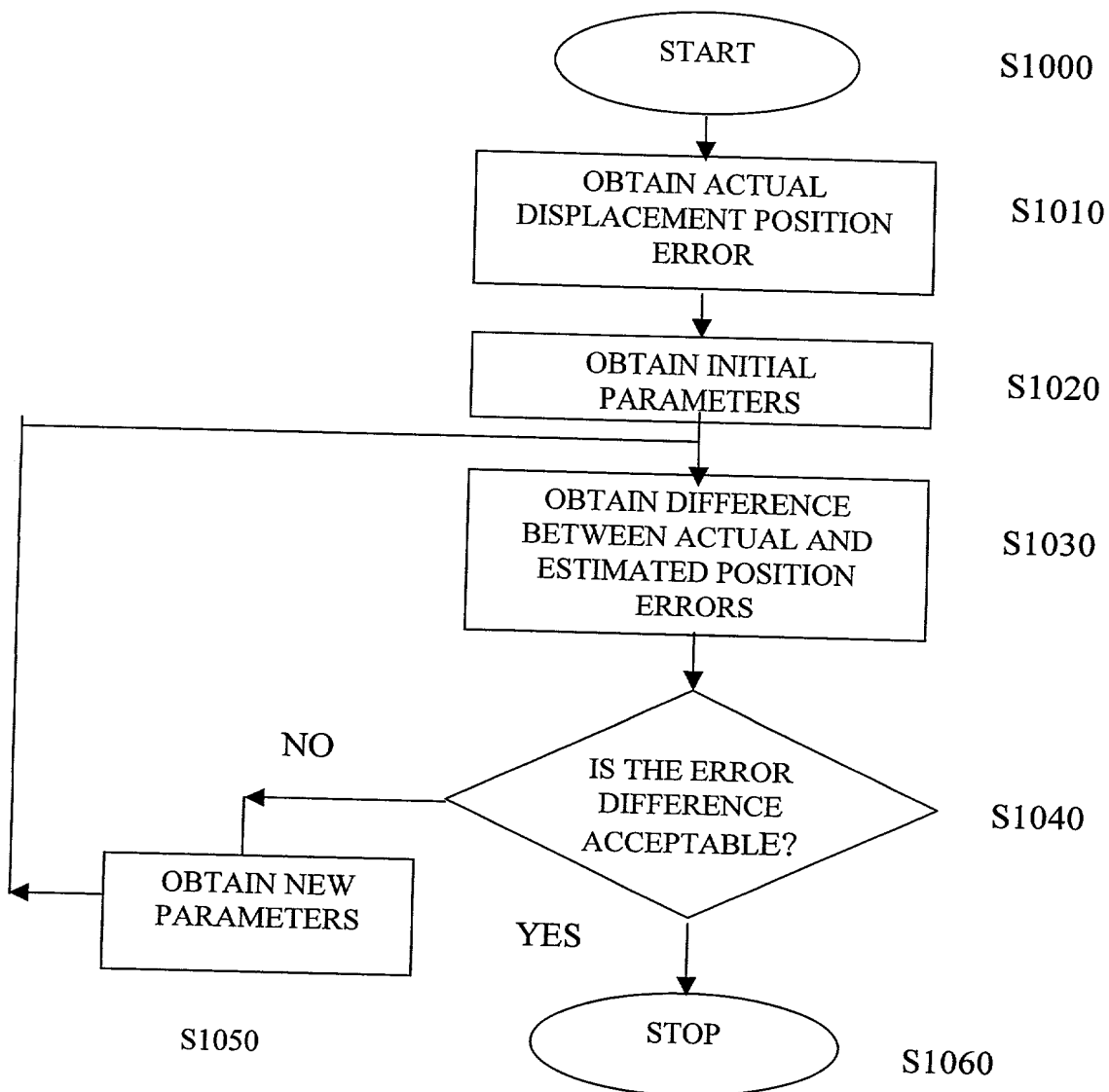


FIG. 11

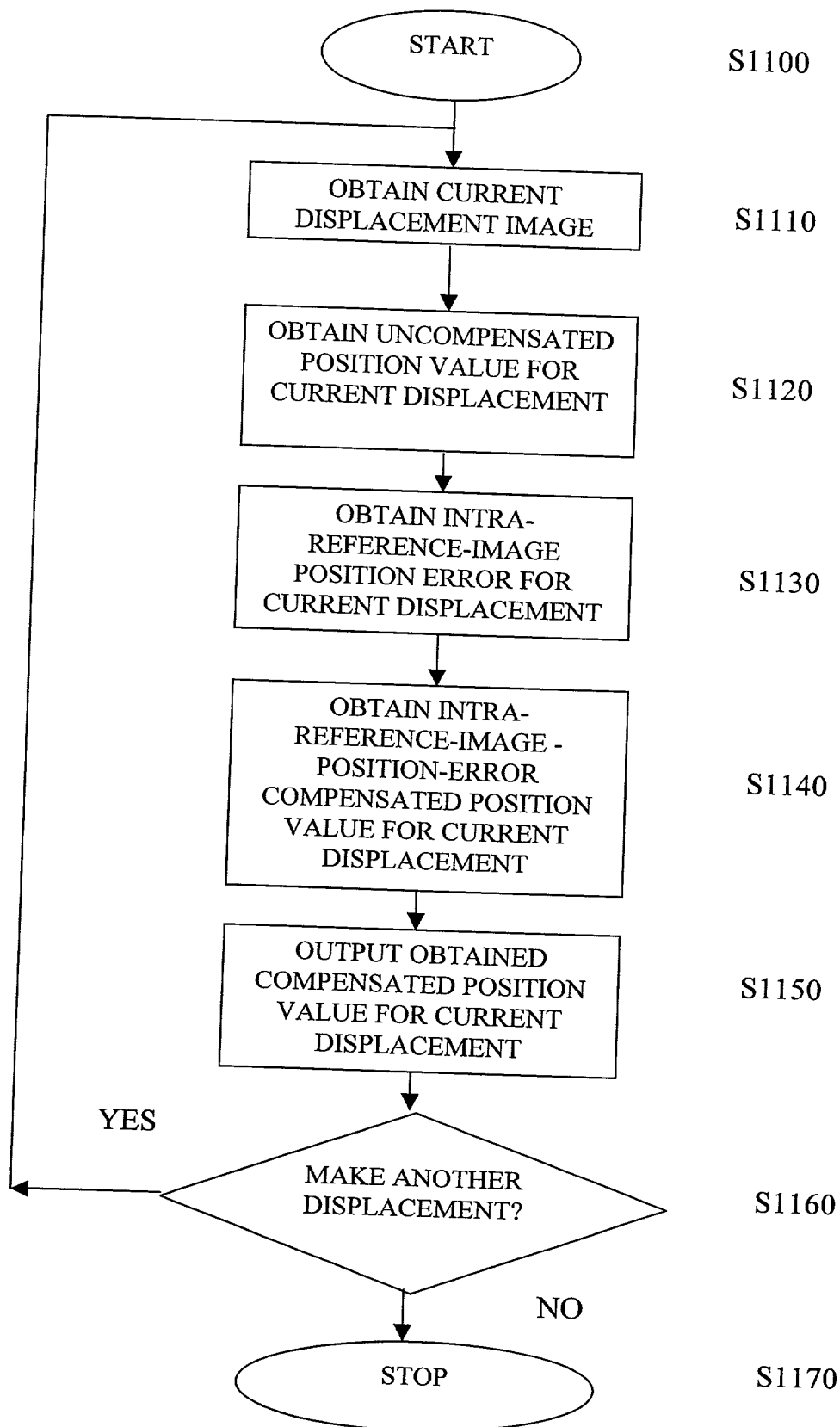


FIG. 12

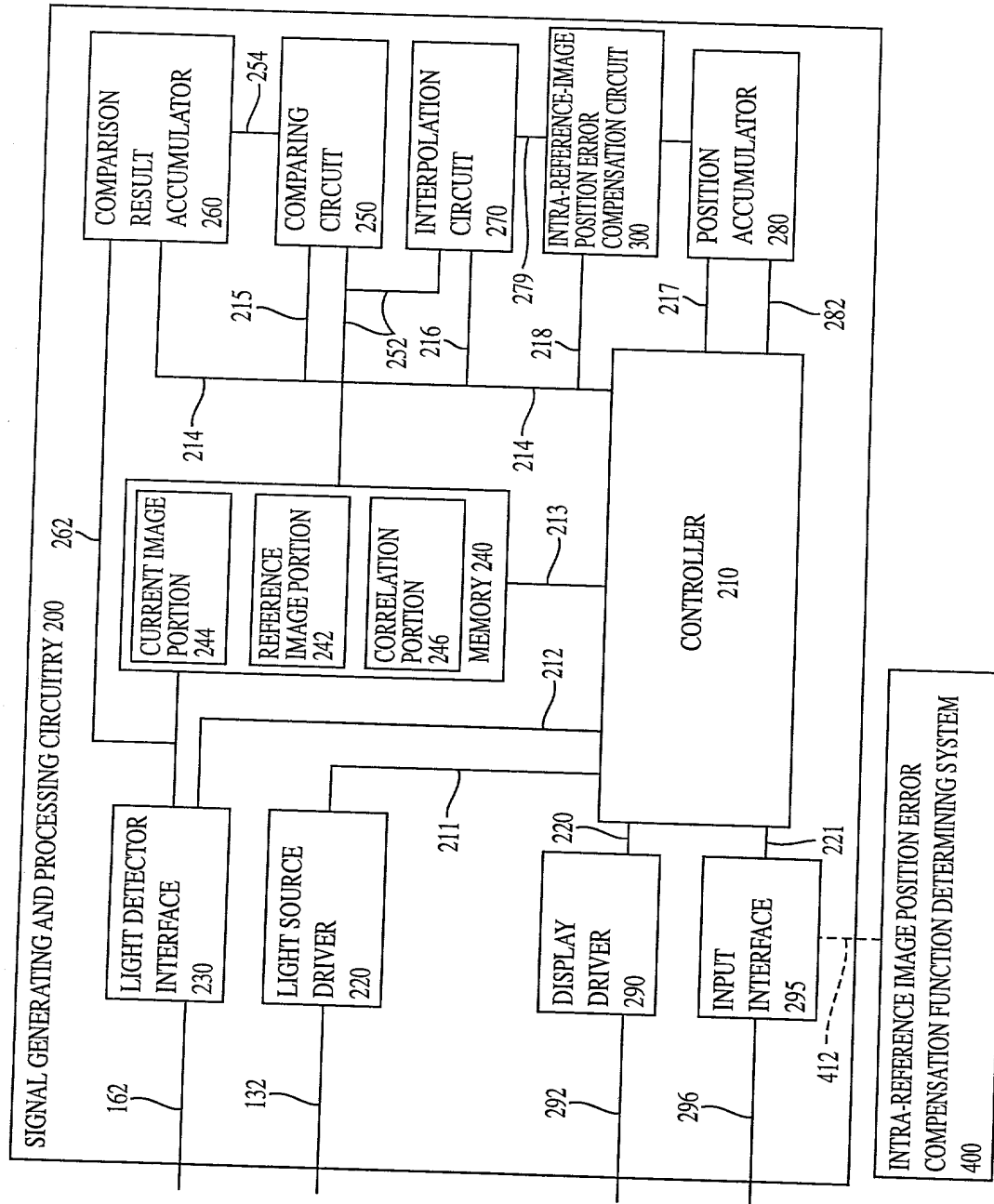


FIG. 13

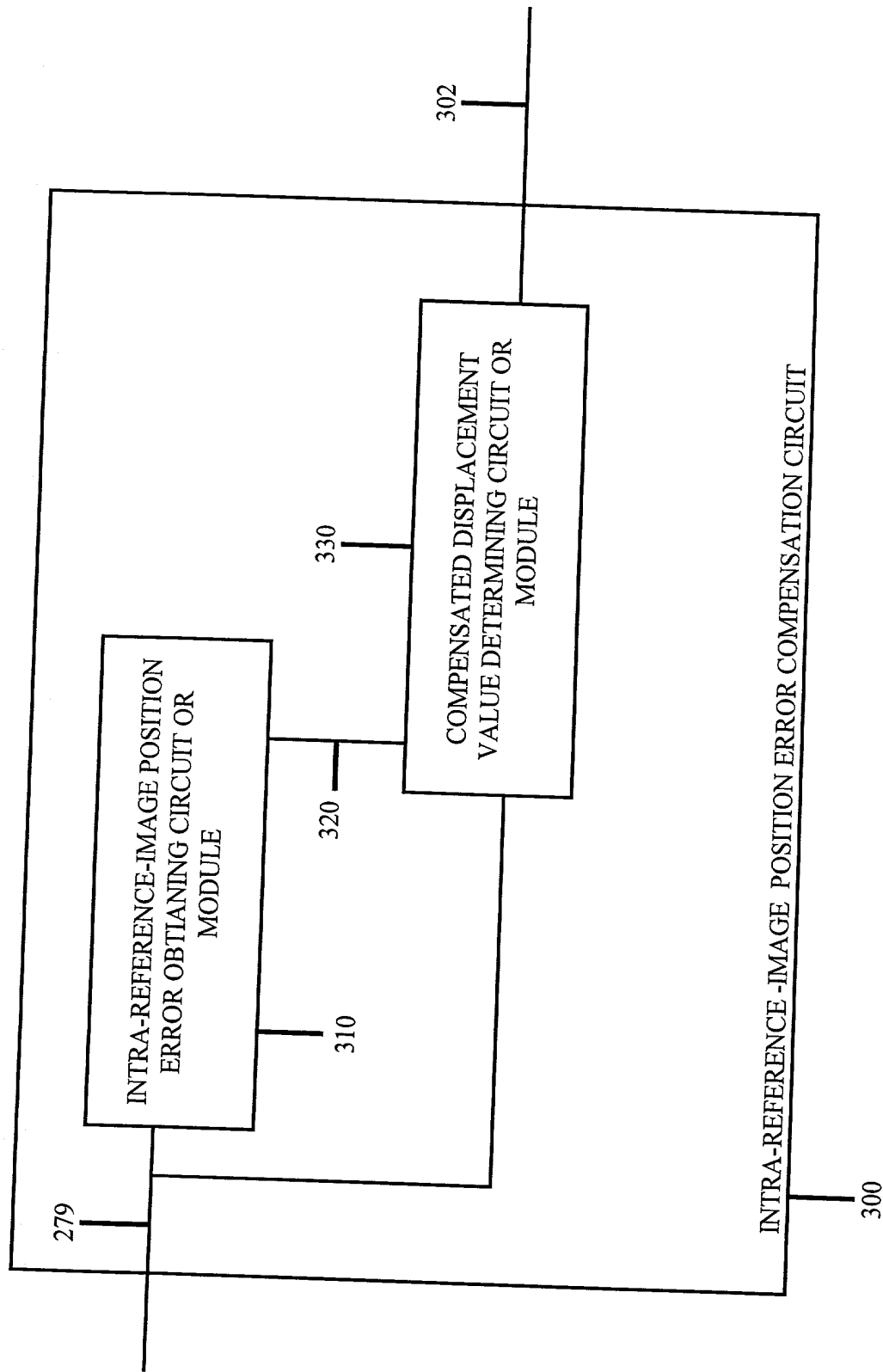


FIG. 14

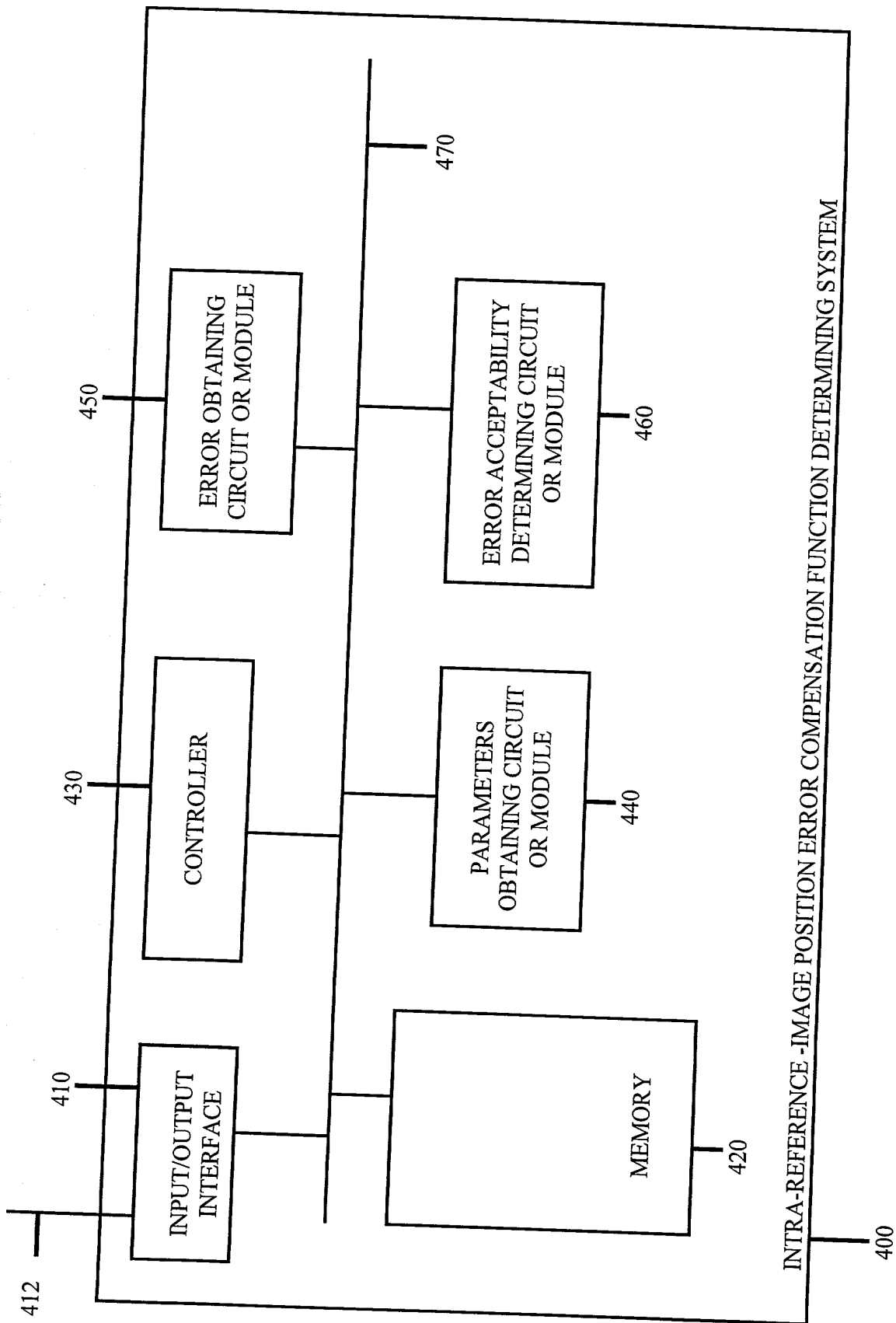


FIG. 15